



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

F & L Aluminum Parts, Inc.
1720 N.W. 22nd Court, Unit #3
Pompano Beach, Florida 33069

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Stands For Rooftop Equipments

APPROVAL DOCUMENT: Drawing No. FNL.13001, titled "Aluminum Stands for Rooftop Equipment Round Posts", sheets 1 through 3 of 3, prepared by Nu-Wind Engineering, dated August 02, 2013, signed and sealed by Christian Langley, P.E., on May 05, 2014, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each stand frame shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
05/15/2014

NOA No. 13-0321.06
Expiration Date: 05/15/2019
Approval Date: 05/15/2014
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F & L Aluminum Parts, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. FNL.13001, titled "Aluminum Stands for Rooftop Equipment Round Posts", sheets 1 through 3 of 3, prepared by Nu-Wind Engineering, dated August 02, 2013, signed and sealed by Christian Langley, P.E., on May 05, 2014.*

B. TESTS

1. *None.*

C. CALCULATIONS

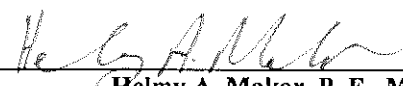
1. *Calculation titled "Standard & Heavy Aluminum A/C Stands", dated March 11, 2013, sheets 1 through 37 of 37, prepared by Nu-Wind Engineering, signed and sealed by Christian Langley, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P. E., M.S.
Product Control Unit Supervisor
NOA No. 13-0321.06
Expiration Date: 05/15/2019
Approval Date: 05/15/2014

DESIGN SCHEDULE

"STANDARD" SYSTEM	TOTAL FRONT AREA	MAX UNIT HEIGHT	MAX STAND HEIGHT	2 FRAMES		3 FRAMES		4 FRAMES		5 FRAMES		6 FRAMES		7 FRAMES		8 FRAMES		MAX TOP AREA
				LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	
4 ft ²	24"	18"	18"	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	8.92 FT ²
		24"	24"	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
		30"	30"	195 psf	94 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
6 ft ²	28"	18"	18"	206 psf	100 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	11.15 FT ²
		24"	24"	160 psf	77 psf	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
		30"	30"	130 psf	63 psf	195 psf	94 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
8 ft ²	32"	18"	18"	155 psf	75 psf	232 psf	112 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	13.38 FT ²
		24"	24"	120 psf	58 psf	180 psf	87 psf	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
		30"	30"	98 psf	47 psf	146 psf	71 psf	195 psf	94 psf	244 psf	118 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
10 ft ²	36"	18"	18"	124 psf	60 psf	177 psf	86 psf	221 psf	107 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	14.86 FT ²
		24"	24"	96 psf	46 psf	144 psf	70 psf	192 psf	93 psf	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
		30"	30"	78 psf	38 psf	117 psf	57 psf	156 psf	76 psf	195 psf	94 psf	234 psf	113 psf	250 psf	121 psf	250 psf	121 psf	
12 ft ²	36"	18"	18"	103 psf	50 psf	147 psf	71 psf	184 psf	89 psf	221 psf	107 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	17.83 FT ²
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16 ft ²	36"	18"	18"	77 psf	37 psf	111 psf	53 psf	138 psf	67 psf	166 psf	80 psf	193 psf	94 psf	221 psf	107 psf	249 psf	120 psf	23.78 FT ²
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25 ft ²	42"	18"	18"	49 psf	24 psf	74 psf	36 psf	91 psf	44 psf	106 psf	51 psf	121 psf	59 psf	136 psf	66 psf	152 psf	73 psf	31.58 FT ²
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		30"	30"	31 psf	15 psf	47 psf	23 psf	62 psf	30 psf	78 psf	38 psf	94 psf	45 psf	109 psf	53 psf	125 psf	60 psf	
30 ft ²	48"	18"	18"	41 psf	20 psf	55 psf	27 psf	66 psf	32 psf	77 psf	37 psf	88 psf	43 psf	99 psf	48 psf	111 psf	53 psf	33.44 FT ²
		24"	24"	32 psf	15 psf	48 psf	23 psf	64 psf	31 psf	77 psf	37 psf	88 psf	43 psf	99 psf	48 psf	111 psf	53 psf	
		30"	30"	26 psf	13 psf	39 psf	19 psf	52 psf	25 psf	65 psf	31 psf	78 psf	38 psf	91 psf	44 psf	104 psf	50 psf	

"HEAVY" SYSTEM	TOTAL FRONT AREA	MAX UNIT HEIGHT	MAX STAND HEIGHT	2 FRAMES		3 FRAMES		4 FRAMES		5 FRAMES		6 FRAMES		7 FRAMES		8 FRAMES		MAX TOP AREA
				LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	
4 ft ²	24"	18"	18"	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	11.42 FT ²
		24"	24"	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
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6 ft ²	28"	18"	18"	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	14.27 FT ²
		24"	24"	204 psf	99 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
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8 ft ²	32"	18"	18"	197 psf	95 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	17.13 FT ²
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10 ft ²	36"	18"	18"	158 psf	76 psf	236 psf	114 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	19.03 FT ²
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12 ft ²	36"	18"	18"	131 psf	64 psf	196 psf	95 psf	246 psf	119 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	22.81 FT ²
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25 ft ²	42"	18"	18"	63 psf	30 psf	95 psf	46 psf	121 psf	59 psf	141 psf	68 psf	162 psf	78 psf	182 psf	88 psf	202 psf	98 psf	40.43 FT ²
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30 ft ²	48"	18"	18"	53 psf	25 psf	74 psf	36 psf	88 psf	43 psf	103 psf	50 psf	118 psf	57 psf	133 psf	64 psf	147 psf	71 psf	42.81 FT ²
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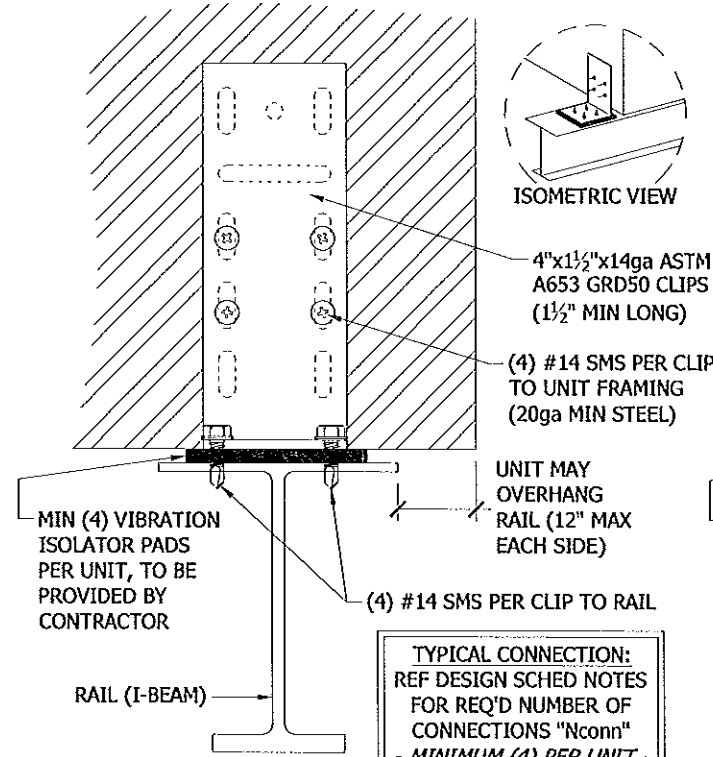
DESIGN SCHEDULE NOTES

- DESIGN SCHEDULE GIVES MAXIMUM ALLOWABLE LATERAL & UPLIFT WIND LOADS FOR EACH COMBINATION OF TOTAL UNIT FRONTAL AREA, TOP AREA, STAND HEIGHT, AND NUMBER OF POST FRAMES PER STAND.
- "TOTAL FRONT AREA" IS TOTAL FRONTAL AREA OF UNIT FACE PARALLEL TO I-BEAM RAIL (= TOTAL OF UNIT HEIGHT x UNIT WIDTH FOR ALL UNITS ON SINGLE STAND), AS DEPICTED HEREIN.
- "MAX UNIT HEIGHT" GIVEN IN SCHEDULE SHALL NOT BE EXCEEDED.
- "STAND HEIGHT" IS AS DEPICTED HEREIN.
- "FRAMES" HERE DENOTES ASSEMBLAGE OF 2 POSTS WITH A CROSSBAR.
- "MAX TOP AREA" IS TOTAL TOP AREA OF ALL UNITS ON A SINGLE STAND.

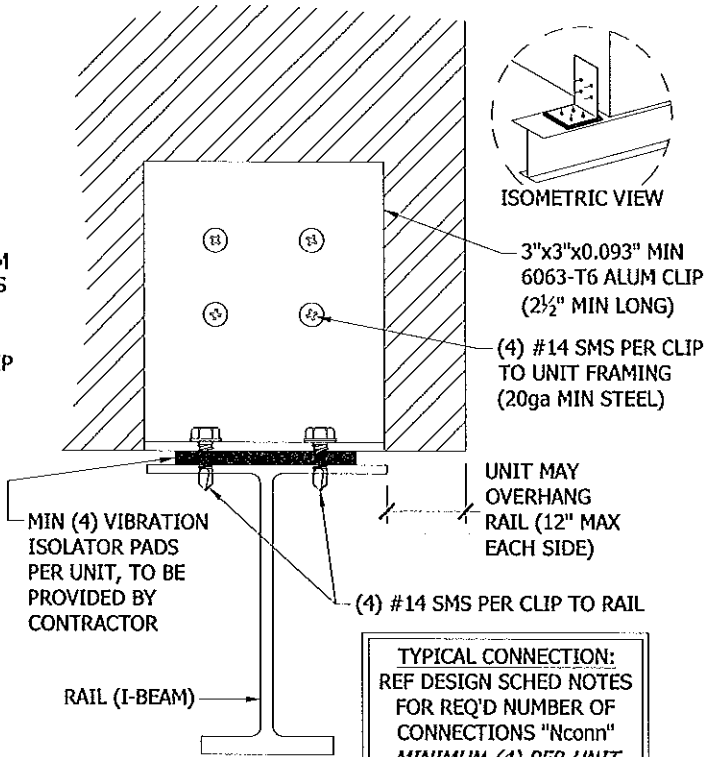
- EACH UNIT SHALL HAVE A MAXIMUM WEIGHT OF 450 LBS.
- SPACING BETWEEN UNITS MAY VARY (UNLIMITED).
- REFERENCE ANCHOR SCHEDULE FOR ALLOWABLE ANCHORS AND INSTALLATION CRITERIA.
- UNITS SHALL BE ATTACHED TO I-BEAMS PER "UNIT CONNECTION" DETAILS. NUMBER OF CONNECTIONS "Nconn" SHALL BE AS FOLLOWS:
TOTAL AREA < 20 SQ FT:
Nconn = NUMBER OF FRAMES + 1
TOTAL AREA 20 SQ FT OR MORE:
Nconn = NUMBER OF FRAMES + 2
NOTE: WHERE MORE THAN (4) CLIPPED UNIT CONNECTIONS (DTL 4/3, 5/3) ARE REQUIRED PER UNIT, ADDITIONAL CONNECTIONS SHALL BE STRAPS (DTL 6/3) OR DIRECT (DTL 7/3).

REACTION SCHEDULE

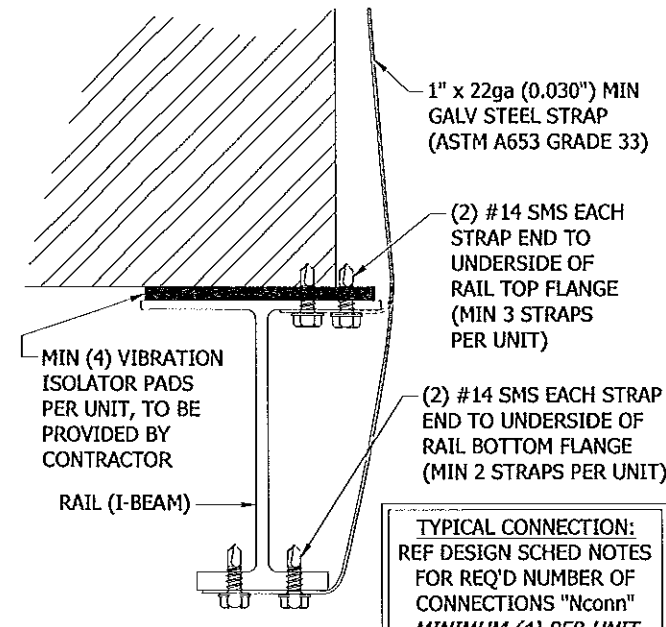
STAND HEIGHT	"STANDARD" SYSTEM			"HE
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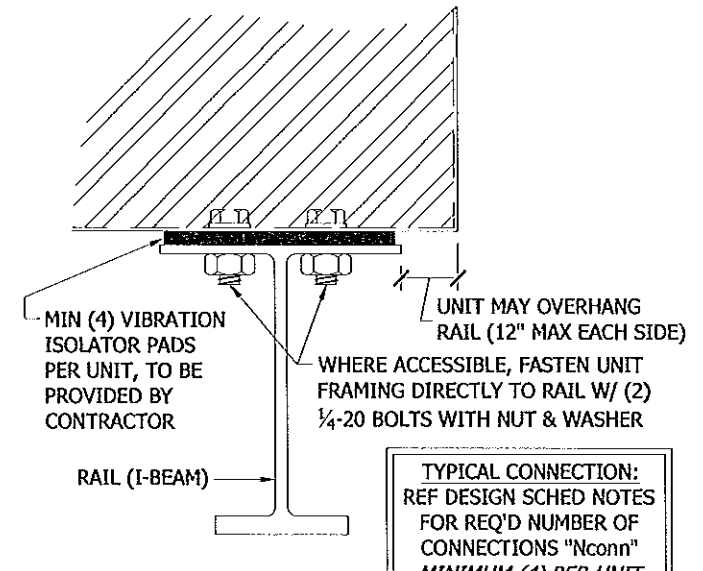
4 CLIPPED UNIT CONNECTION
SCALE: 1:2 VERT SECTION



5 CLIPPED UNIT CONNECTION
SCALE: 1:2 VERT SECTION



6 STRAPPED UNIT CONNECTION
SCALE: 1:2 VERT SECTION



7 DIRECT UNIT CONNECTION
SCALE: 6" = 1'-0" VERT SECTION

ANCHOR SCHEDULE:

TO CONCRETE (MIN 2,000 PSI)

- A. 3/8" POWERS WEDGE-BOLT
3 1/2" MIN EMBED
4 1/2" MIN EDGE DISTANCE

TO WOOD HOST STRUCTURE

- B. 3/8" LAG SCREW
3 1/2" MIN THREAD PENETRATION

TO STEEL (MIN 1/4" THICK)

- C. 3/8-16 SELF-THREADING METAL SCREWS (SAE GRADE 5)
WITH 1" DIAM WASHER

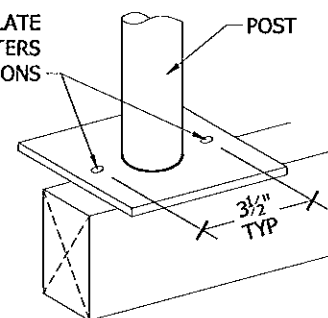
ANCHOR NOTES:

- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, & LOCATED PER BASEPLATE COMPONENT DETAIL(S).
- ENSURE MINIMUM EMBEDMENT, EDGE DISTANCE, & SPACING FOR ALL ANCHORS ARE IN ACCORDANCE WITH ANCHOR SCHEDULE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES SHEATHING, UNDERLAYMENT, INSULATION, AND OTHER ROOFING MATERIALS.
- MINIMUM 3/4" EDGE DISTANCE IS CONSIDERED IN DESIGN FOR ALL ANCHORS TO WOOD HOST STRUCTURE (i.e. ANCHOR SHALL BE LOCATED IN CENTER OF TRUSS/RAFTER WHERE FASTENED TO NARROW FACE OF NOMINAL 2x LUMBER).
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" WITH G=0.55 OR GREATER SPECIFIC GRAVITY (≈ DENSITY).
- WHERE HOST STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD (U.N.O.).
- SELF-TAPPING OR SELF-THREADING METAL SCREWS SHALL BE INSTALLED WITH FULL THREAD ENGAGEMENT INTO METAL HOST STRUCTURE AND MAY HAVE A FLAT HEAD, PAN HEAD, TRUSS HEAD, OR OTHER HEAD STYLES.
- FASTENERS THAT INCORPORATE MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE ANY HEAD STYLE, UNLESS INDICATED OTHERWISE BY MFR.

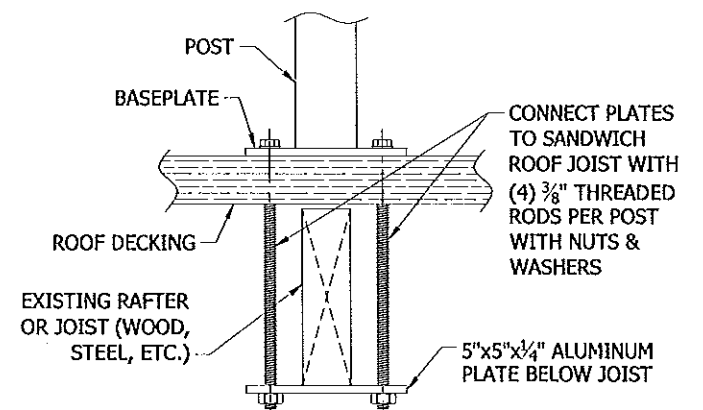
ALTERNATE: (2) ANCHORS PER BASEPLATE FOR INSTALLATION TO WOOD RAFTERS - REF ANCHOR SCHED FOR OPTIONS

THIS INSTALLATION OPTION SHALL BE LIMITED TO THE FOLLOWING:

- 12 SQ FT MAX TOTAL AREA
- (3) FRAMES MIN
- 24" MAX STAND HT
- MAX ALLOWABLE DESIGN PRESSURES:
 - "STANDARD" SYSTEM: 106.4 PSF LATERAL / 51.5 PSF UPLIFT
 - "HEAVY" SYSTEM: 108.0 PSF LATERAL / 52.2 PSF UPLIFT



8 ALT: DIRECT RAFTER/JOIST BASEPLATE ANCHORAGE
SCALE: N.T.S. ISOMETRIC



9 ALT: SUB-RAFTER/SUB-JOIST BASEPLATE ANCHORAGE
SCALE: N.T.S. VERT SECTION

Approved as complying with the Florida Building Code
Date 05/15/2014
NOA# 13-0321.06
Miami Dade Product Control
By [Signature]

DATE	DESCRIPTION	BY
1/31/13	INITIAL SUBMITAL	CL
8/2/13	REVIEWER COMMENTS	CL
-	-	-
-	-	-
-	-	-

ALUMINUM STANDS FOR ROOFTOP EQUIPMENT (ROUND POSTS)
MIAMI-DADE NOA

PROJCT

F & L ALUMINUM PARTS, INC
1720 NW 22 CT, UNIT 3
POMPANO BEACH, FL 33069

DRAWING NUMBER:
FNL.13001

SHEET

3 OF 3